



## WebSphere Application Server V7: Administration with Scripting

The administrative console is sufficient for tasks that are non-repetitive, have a minimal number of administrative steps, and are relatively simple. For administration that requires many steps, which can be repetitive, and time consuming to configure, wsadmin combined with scripts is an ideal tool.

In this chapter we introduce the `wsadmin` scripting solution and describe how you can use it to perform basic tasks.

This chapter contains the following topics:

- ▶ "Overview of WebSphere scripting" on page 2
- ▶ "Launching wsadmin" on page 3
- ▶ "Command and script invocation" on page 7
- ▶ "wsadmin management objects" on page 9
- ▶ "Managing WebSphere using script libraries" on page 14
- ▶ "Assistance with scripting" on page 33
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- ▶ "Online resources" on page 47

# WebSphere Application Server V7 Administration And Configuration Guide

**Leigh Williamson**



## **WebSphere Application Server V7 Administration And Configuration Guide:**

*WebSphere Application Server V7 Administration and Configuration Guide* Carla Sadtler,2005\*      *WebSphere Application Server V7 Administration and Configuration Guide* Carla Sadtler,Fabio Albertoni,Leonard Blunt,Michael Connolly,Stefan Kwiatkowski,Thayaparan Shanmugaratnam,Henrik Sjostrand,Saori Tanikawa,Margaret Ticknor,Joerg-Ulrich Vesper,IBM Redbooks,2013-06-12 This IBM Redbooks publication provides system administrators and developers with the knowledge to configure a WebSphere Application Server V7 runtime environment to package and deploy applications and to perform ongoing management of the WebSphere environment As one in a series of IBM Redbooks publications and Redpapers™ publications for V7 the entire series is designed to give you in depth information about key WebSphere Application Server features In this book we provide a detailed exploration of the WebSphere Application Server V7 runtime administration process The book includes configuration and administration information for WebSphere Application Server V7 and WebSphere Application Server Network Deployment V7 on distributed platforms and WebSphere Application Server for z OS V7 The following publications are considered prerequisites to this book WebSphere Application Server V7 0 Technical Overview REDP 4482 WebSphere Application Server V7 Concepts Planning and Design SG24 7708      *WebSphere Application Server V7* ,2009      *WebSphere Application Server V8: Administration and Configuration Guide* Martin Bentancour,Libor Cada,Jing Wen Cui,Marcio d'Amico,Ural Emekci,Sebastian Kapciak,Jennifer Ricciuti,Margaret Ticknor,IBM Redbooks,2011-11-22 This IBM Redbooks publication provides system administrators and developers with the knowledge to configure an IBM WebSphere Application Server Version 8 runtime environment to package and deploy applications and to perform ongoing management of the WebSphere environment As one in a series of IBM Redbooks publications and IBM Redpapers publications for V8 the entire series is designed to give you in depth information about key WebSphere Application Server features In this book we provide a detailed exploration of the WebSphere Application Server V8 runtime administration process This book includes configuration and administration information for WebSphere Application Server V8 and WebSphere Application Server Network Deployment V8 on distributed platforms and WebSphere Application Server for z OS V8 The following publications are prerequisites for this book WebSphere Application Server V8 0 Technical Overview REDP 4756 IBM WebSphere Application Server V8 Concepts Planning and Design Guide SG24 7957      *IBM WebSphere Application Server V8.5 Administration and Configuration Guide for Liberty Profile* Anil Esen,Toshiyuki Iue,Neil Patterson,Jennifer Ricciuti,IBM Redbooks,2015-10-26 IBM WebSphere Application Server V8 5 includes a Liberty profile which is a highly composable dynamic application server profile It is designed for two specific use cases Developers with a smaller production runtime and production environments For developers it focuses on the tasks that a developer does most frequently and makes it possible for the developer to complete those tasks as quickly and as simply as possible For production environments it provides a dynamic small footprint runtime to be able to maximize system resources This IBM

Redbooks publication targets administrators of Liberty environments. It provides the information needed to create, configure and manage Liberty servers. It includes information about managing multiple servers in an installation including the use of the new administrative capabilities introduced in WebSphere Application Server V8.5.5.7. The following publications are companion publications for this book:

- WebSphere Application Server New Features in V8.5.5: REDP 4870
- WebSphere Application Server V8.5.5 Technical Overview: REDP 4855
- IBM WebSphere Application Server V8.5 Concepts, Planning and Design Guide: SG24 8022
- WebSphere Application Server Liberty Profile Guide for Developers: SG24 8076

*IBM Midmarket Software Buying and Selling Guide* Linda May Patterson, IBM Redbooks, 2010-07-12. The IBM Midmarket Software Buying and Selling Guide is tailored specifically to help the management and IT staff of small and mid-sized businesses evaluate how the IBM midmarket portfolio can provide simple and cost-effective solutions to common business problems. Along with a midmarket customer focus, this IBM Redpaper™ publication is designed to help IBM teams and Business Partners be more effective in serving small and mid-sized businesses. We illustrate how IBM software for the midmarket can help businesses use the Web to reduce expenses, improve customer service and expand into new markets. We cover the IBM software offering for the midmarket which includes what the software does, the platforms it runs on, where to find more information and how it can help your business become more profitable. IBM Business Partners often keep a printed copy of this guide in their briefcases for software references. Customers can view this guide online and look up software value messages and IBM product family offering comparisons. IBM Sales Representatives can print parts of this guide as leave-behinds for customers to give them extra collateral on midmarket software of interest. To make sure that you have the latest version of this guide, download it from this web address: <http://www.redbooks.ibm.com/abstracts/redp3975.html>. Open **IBM WebSphere Application Server V8.5 Administration and Configuration Guide for Liberty Profile** Anil Esen, 2015 **Getting Started with the Feature Pack for OSGi Applications and JPA 2.0** Carla Sadtler, Daniel Haischt, Philipp Huber, Valentin Mahrwald, IBM Redbooks, 2010-12-02. This IBM Redbooks publication introduces OSGi applications and Java™ Persistence API (JPA) 2.0 technology and describes their implementation in the Feature Pack for OSGi Applications and JPA 2.0 for WebSphere Application Server 7.0. The book will help you understand the position of these new technologies as well as how to use them for Java enterprise development in a WebSphere Application Server environment. Though synergistic, both technologies can be used in isolation. This publication is structured to appeal to administrators, application developers and all those individuals using the technologies together or independently. The book is split into two parts: Part 1: Architecture and overview on page 1 introduces OSGi applications and JPA 2.0 and describes how to set up a development and test environment. Part 2: Examples on page 55 uses examples to illustrate how to exploit the features of OSGi applications and JPA 2.0. WebSphere Application Server V8.5 Administration and Configuration Guide for the Full Profile Fabio Albertoni, Tanja Baumann, Yogesh Bhatia, Eduardo Fronza, Marcio da Ros Gomes, Sebastian Kapciak, Catalin Mierlea, Sergio Pinto, Anoop Ramachandra, Liang

Rui,Miguel Troncoso,2013 This IBM Redbooks publication provides system administrators and developers with the knowledge to configure an IBM WebSphere Application Server Version 8 5 runtime environment to package and deploy applications and to perform ongoing management of the WebSphere environment As one in a series of IBM Redbooks publications and IBM RedpapersTM publications for V8 5 the entire series is designed to give you in depth information about key WebSphere Application Server features WebSphere Application Server V8 5 provides two runtime profiles Every WebSphere Application Server package includes both profile types The runtime traditionally available with the WebSphere Application Server packages is referred to as the full profile The application serving run time provided with this profile is composed of a wide spectrum of runtime components that are available when the server is started The full profile provides support for Java Platform Enterprise Edition 6 Java EE 6 and Enterprise OSGi technologies The Liberty profile provides a simplified stand alone run time for web applications supporting a subset of the programming model available with the full profile Any application that runs on the Liberty profile will also run on the full profile In this book we provide a detailed exploration of the WebSphere Application Server V8 5 runtime administration process for the full profile This book includes configuration and administration information for WebSphere Application Server V8 5 and WebSphere Application Server Network Deployment V8 5 on distributed platforms and WebSphere Application Server for IBM z OS V8 5 This book has been updated with information about the new features in WebSphere Application Server V8 5 5 The Liberty profile administration and configuration information has been moved into a separate book The following publications are prerequisites for this book WebSphere Application Server New Features in V8 5 5 REDP 4870 WebSphere Application Server V8 5 5 Technical Overview REDP 4855 IBM WebSphere Application Server V8 5 Concepts Planning and Design Guide SG24 8022 The following publications are companion books covering the Liberty profile of WebSphere Application Server WebSphere Application Server Liberty Profile Guide for Developers SG24 8076 WebSphere Application Server V8 5 Administration Guide for the Liberty Profile SG24 8170      **Exploiting IBM PowerVM Virtualization Features with IBM Cognos 8 Business**

**Intelligence** Dino Quintero,Bruno Alves,Thanh Lam,Sudipto Pal,Liviu Rosca,IBM Redbooks,2010-09-07 This IBM Redbooks publication addresses topics to leverage the virtualization strengths of the IBM Power platform to solve customer system resource utilization challenges and maximize system throughput and capacity This IBM Redbooks publication will help you leverage the strengths of the POWER platform provide implementation scenarios with Cognos 8 Business Intelligence BI with the comprehensive set of the IBM PowerVMTM virtualization features and identify and document best practices for exploiting the IBM PowerVM virtualization features within Cognos BI deployments to maximize utilization of system resources and maximize Cognos throughput and capacity This book is targeted toward technical professionals BI consultants technical support staff IT architects and IT specialists responsible for providing business intelligence solutions and support for Cognos BI on POWER systems      WebSphere Application Server V7 Migration Guide Rufus Credle,Dana

Duffield,Vasanth Kodi,Jagdish Komakula,Anitha Krishnasmy,IBM Redbooks,2010-05-25 This IBM Redpaper™ publication positions WebSphere Application Server Version 7.0 in today's marketplace and discusses the most common migration methods taking WebSphere Application Server from a V5.1 and V6.x environment to V7.0 This paper helps you to understand the significant changes with respect to migrating to WebSphere Application Server on V7.0 This paper provides several business scenarios that can be implemented through simple customizations Each scenario addresses a unique requirement that can be mapped with similar business scenarios as in the following examples Migrate portions of a configuration from an existing WebSphere Application Server V5.1 x V6.0 x or V6.1x to V7.0 Migrate existing configurations and applications to WebSphere Application Server V7.0 by copy and coexistence Migrate a large network deployment configuration with a large number of applications This paper has been developed for an experienced WebSphere Application Server design development and software engineering audience IT Security Policy Management Usage Patterns Using IBM Tivoli

Security Policy Manager Axel Buecker,Scott Andrews,Craig Forster,Nicholas Harlow,Ming Lu,Sridhar Muppidi,Trevor Norvill,Philip Nye,Günter Waller,Eric T. White,IBM Redbooks,2011-10-26 In a growing number of organizations policies are the key mechanism by which the capabilities and requirements of services are expressed and made available to other entities The goals established and driven by the business need to be consistently implemented managed and enforced by the service oriented infrastructure expressing these goals as policy and effectively managing this policy is fundamental to the success of any IT and application transformation First a flexible policy management framework must be in place to achieve alignment with business goals and consistent security implementation Second common reusable security services are foundational building blocks for SOA environments providing the ability to secure data and applications Consistent IT Security Services that can be used by different components of an SOA run time are required Point solutions are not scalable and cannot capture and express enterprise wide policy to ensure consistency and compliance In this IBM Redbooks publication we discuss an IBM Security policy management solution which is composed of both policy management and enforcement using IT security services We discuss how this standards based unified policy management and enforcement solution can address authentication identity propagation and authorization requirements and thereby help organizations demonstrate compliance secure their services and minimize the risk of data loss This book is a valuable resource for security officers consultants and architects who want to understand and implement a centralized security policy management and entitlement solution

WebSphere Application Server V8.5 Administration and Configuration Guide Martin Bentancour,Libor Cada,Jing Wen Cui,Marcio d' Amico,Ural Emekci,Sebastian Kapciak,Jennifer Ricciuti,Margaret Ticknor,2011 This IBM Redbooks publication provides system administrators and developers with the knowledge to configure an IBM WebSphere Application Server Version 8 runtime environment to package and deploy applications and to perform ongoing management of the WebSphere environment WebSphere Application Server V8.0 Technical Overview REDP 4756 IBM WebSphere Application Server V8

Concepts Planning and Design Guide SG24 7957      WebSphere Application Server Administration Using Jython Robert A. Gibson, Arthur Kevin McGrath, Noel Bergman, 2010 Save Time and Money Streamline WebSphere Application Server Management with Jython Scripting Utilizing Jython scripting you can dramatically reduce the effort resources and expense associated with managing WebSphere Application Server WebSphere Application Server Administration Using Jython will show you how The first start to finish guide to Jython scripting for WebSphere administration this book s practical techniques and downloadable scripts can help you improve efficiency repeatability and automation in any WebSphere environment This book s expert authors begin with practical introductions to both WebSphere Application Server administration and Jython today s powerful Java implementation of Python Next they cover a broad spectrum of WebSphere management tasks and techniques presenting real easy to adapt solutions for everything from server configuration and security to database management These are powerful solutions you can begin using immediately whether you re running WebSphere in production development or test environments Coverage includes Mastering the Jython rules characteristics and properties that are most valuable in WebSphere scripting Viewing and manipulating WebSphere configuration and run time details Making the most of the wsadmin scripting engine and objects including rarely used wsadmin parameters that can simplify administration Adjusting wsadmin properties to reflect your needs and environment Using the AdminApp scripting object to list view install uninstall and modify AppServer applications Using the AdminTask object to manipulate WebSphere Application Server at a high level Configuring the WebSphere Application Server with AdminConfig Manipulating active AppServer objects MBeans with AdminControl Controlling security including aliases roles administrative and application security and multiple security domains      **WebSphere Application Server 7.0 Administration Guide** Steve Robinson, 2009-08-13 Manage and administer your WebSphere application server to create a reliable secure and scalable environment for running your applications with this book and eBook      **WebSphere Application Server V8.5 Administration and Configuration Guide for the Full Profile** IBM Redbooks, 2013      *IBM WebSphere System Administration* Leigh Williamson, 2005 Make the most of completely revamped administration tools in WebSphere Version 5 IBM WebSphere Version 5 offers a completely rewritten radically improved infrastructure for administering servers and applications Now its creators have written the definitive WebSphere Version 5 administration reference and tutorial everything you need to manage WebSphere to the highest levels of performance and efficiency The authors systematically cover all four WebSphere administration toolsets command line utilities the new Administrative Console scripting tools and Java management APIs You ll find a complete library of code examples plus powerful new insider s tips for maximizing your productivity as a WebSphere administrator Whether you re managing WebSphere Version 5 or incorporating administrative support into new WebSphere applications this book provides you with the techniques examples and tips you need to do it right Fundamentals of WebSphere administration servers nodes node agents cells clusters and the deployment manager

Revamped package structure of WebSphere Version 5 and its implications Process internals distributed administration features administrative security and XML configuration file structure Command line tools a complete reference with practical examples Web based graphical management with the new Administrative Console Scripting the management features of WebSphere Version 5 with wsadmin Writing custom management programs Extending the native WebSphere administrative system with new managed options Using Java administrative APIs to manage WebSphere applications from other products Sum Includes extensive code examples real world scenarios and best practices      **WebSphere Application Server V8.5 Administration and Configuration Guide** Yogesh Bhatia,2012      **Conference Proceedings** ,2003      **WebSphere Application Server V7 Messaging Administration Guide** Carla Sadtler,Leonard Blunt,Neela M. Suram,2005\*



The book delves into Websphere Application Server V7 Administration And Configuration Guide. Websphere Application Server V7 Administration And Configuration Guide is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Websphere Application Server V7 Administration And Configuration Guide, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 3: Websphere Application Server V7 Administration And Configuration Guide in Everyday Life
    - Chapter 4: Websphere Application Server V7 Administration And Configuration Guide in Specific Contexts
    - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Websphere Application Server V7 Administration And Configuration Guide.

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
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